



**FIG. 2**

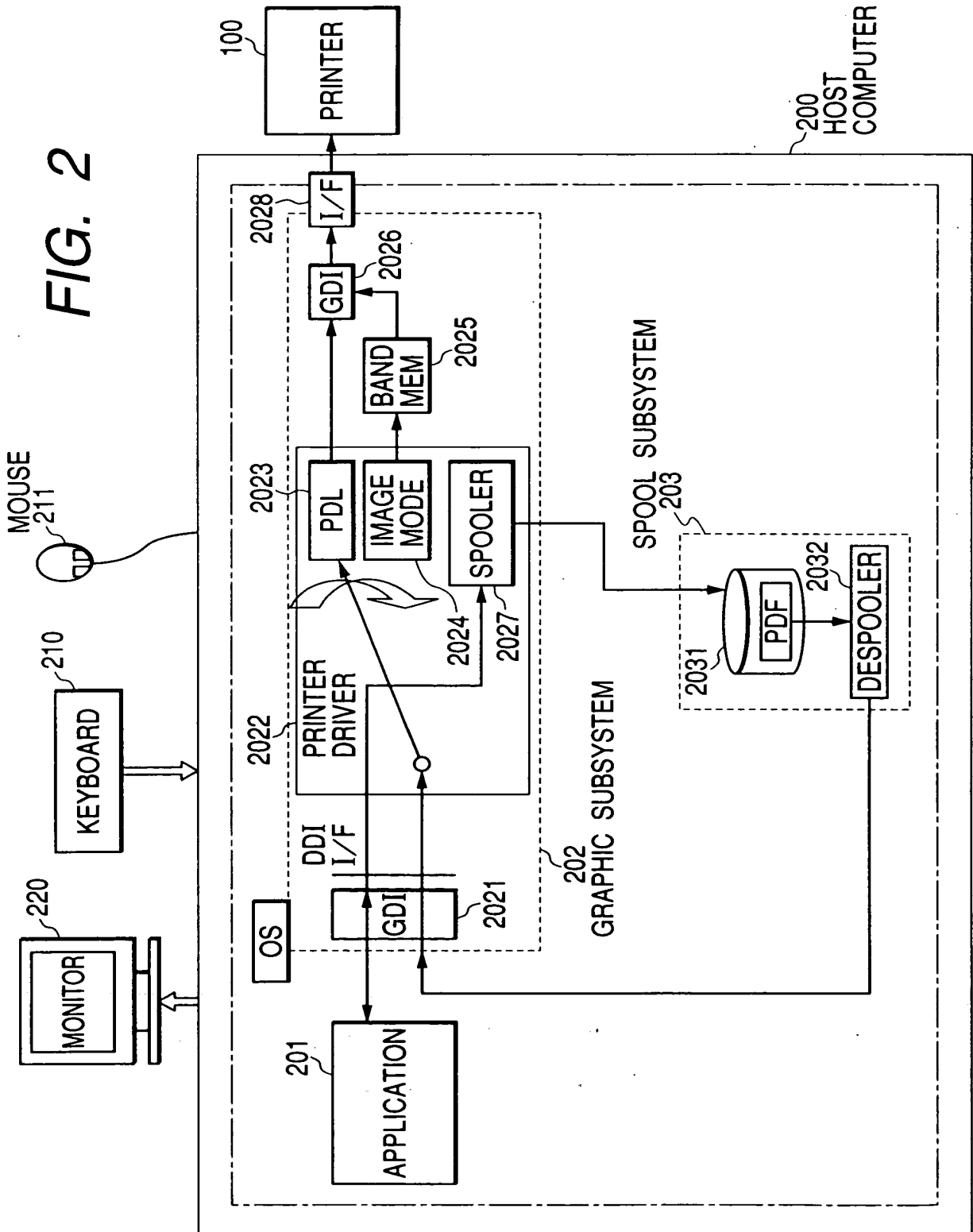


FIG. 3A

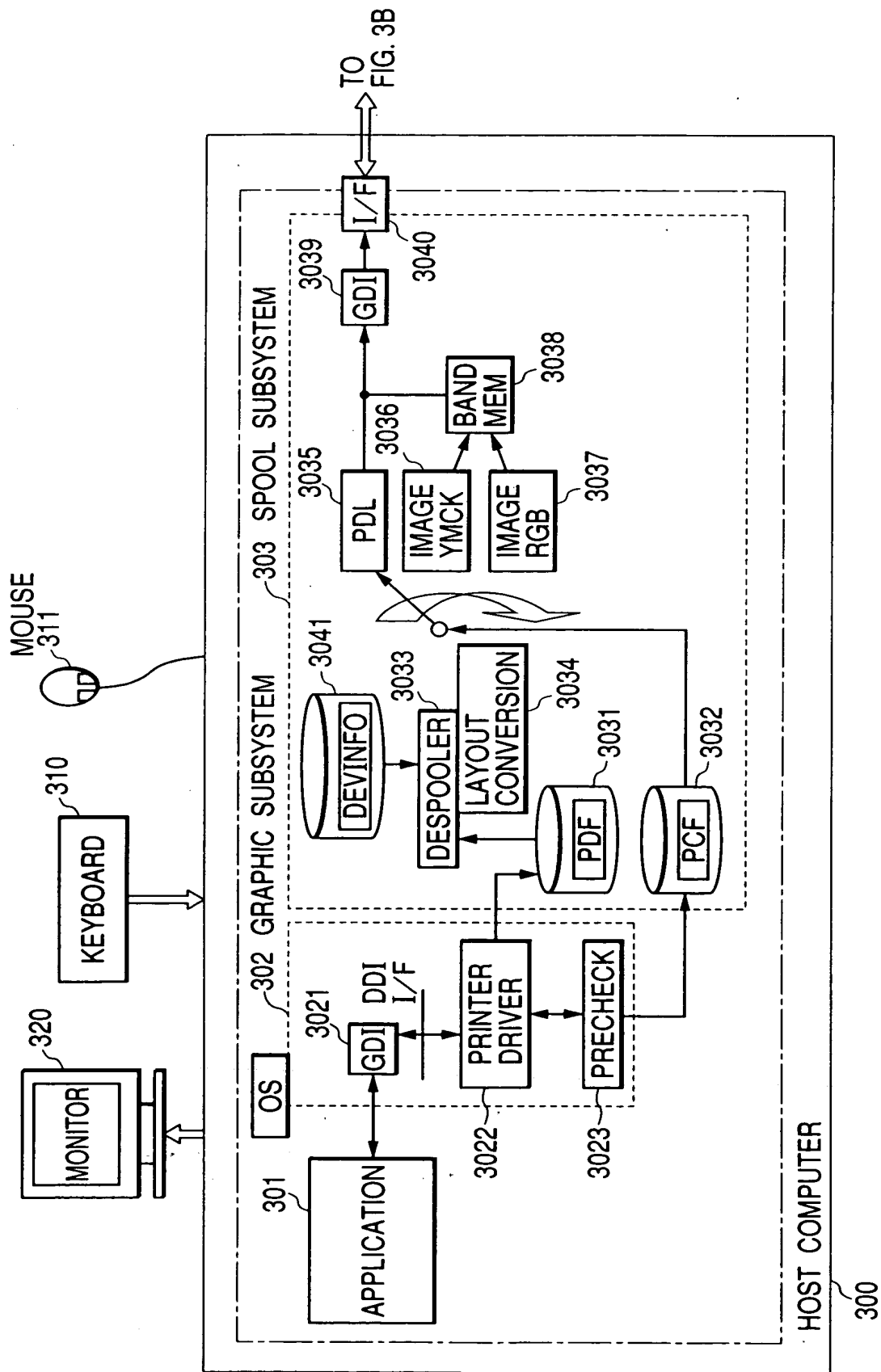




FIG. 4

	DATA SIZE	PROCESSING SPEED	OTHERS
PDL	<ul style="list-style-type: none"> <li>• MIN FOR NORMAL PAGE</li> <li>• NO LIMITATIONS</li> </ul>	<ul style="list-style-type: none"> <li>• HIGH FOR NORMAL PAGE</li> <li>• LOW FOR COMPLICATED GRAPHICS</li> </ul>	SHORTCOMINGS IN LOGICAL OPERATION
DEVICE IMAGE	<ul style="list-style-type: none"> <li>• PROPORTIONAL TO DRAW AREA</li> <li>• MAX FIXED</li> </ul>	<ul style="list-style-type: none"> <li>• HIGH</li> <li>• LOW ENGINE SPEED FOR SIMPLE FIGS. &amp; CHRS</li> </ul>	SHORTCOMINGS IN LOGICAL OPERATION
RGB24 IMAGE	<ul style="list-style-type: none"> <li>• PROPORTIONAL TO DRAW AREA</li> <li>• MAX FIXED</li> </ul>	LOW	LOGICAL OPERATION OK

090500Z = 060700Z

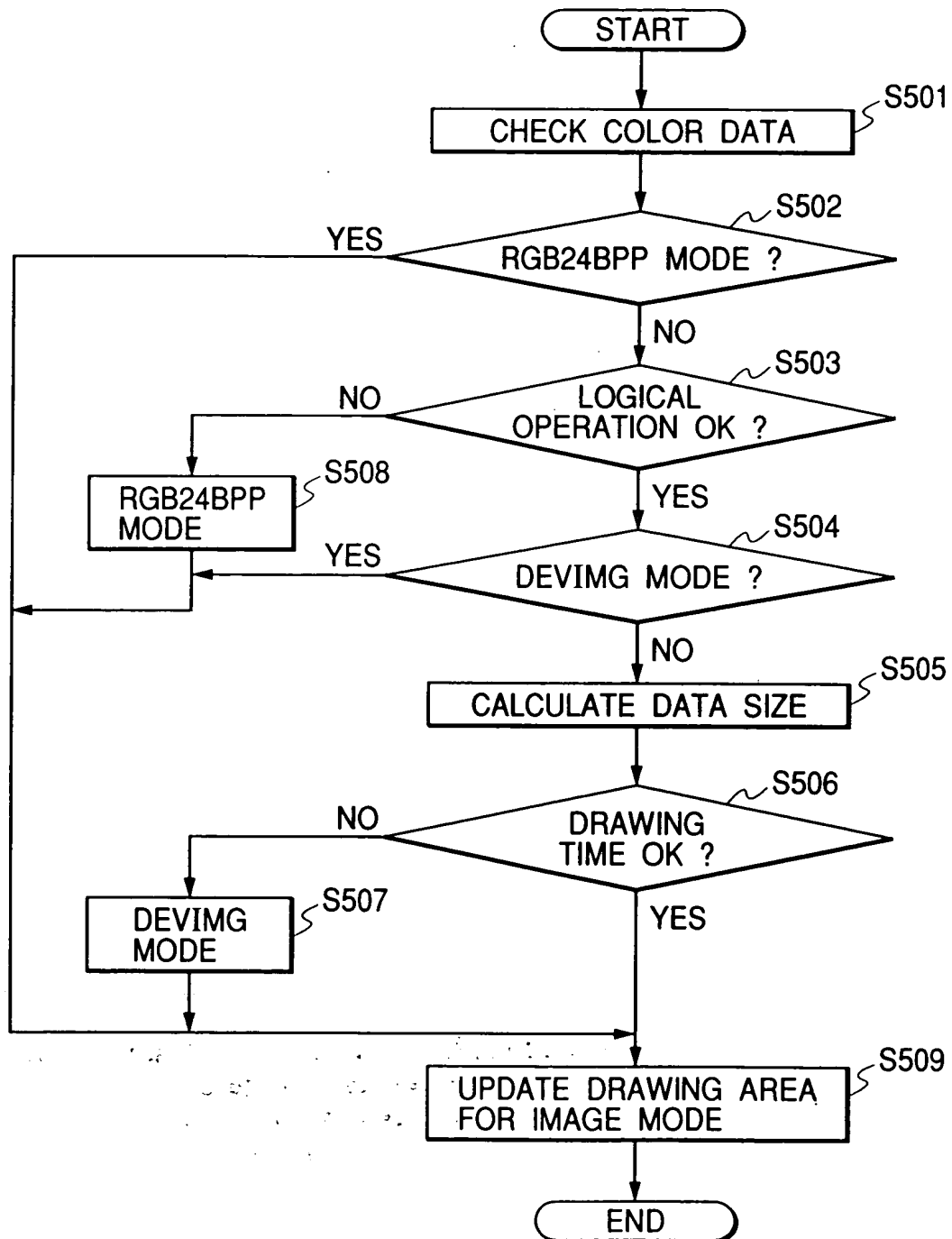
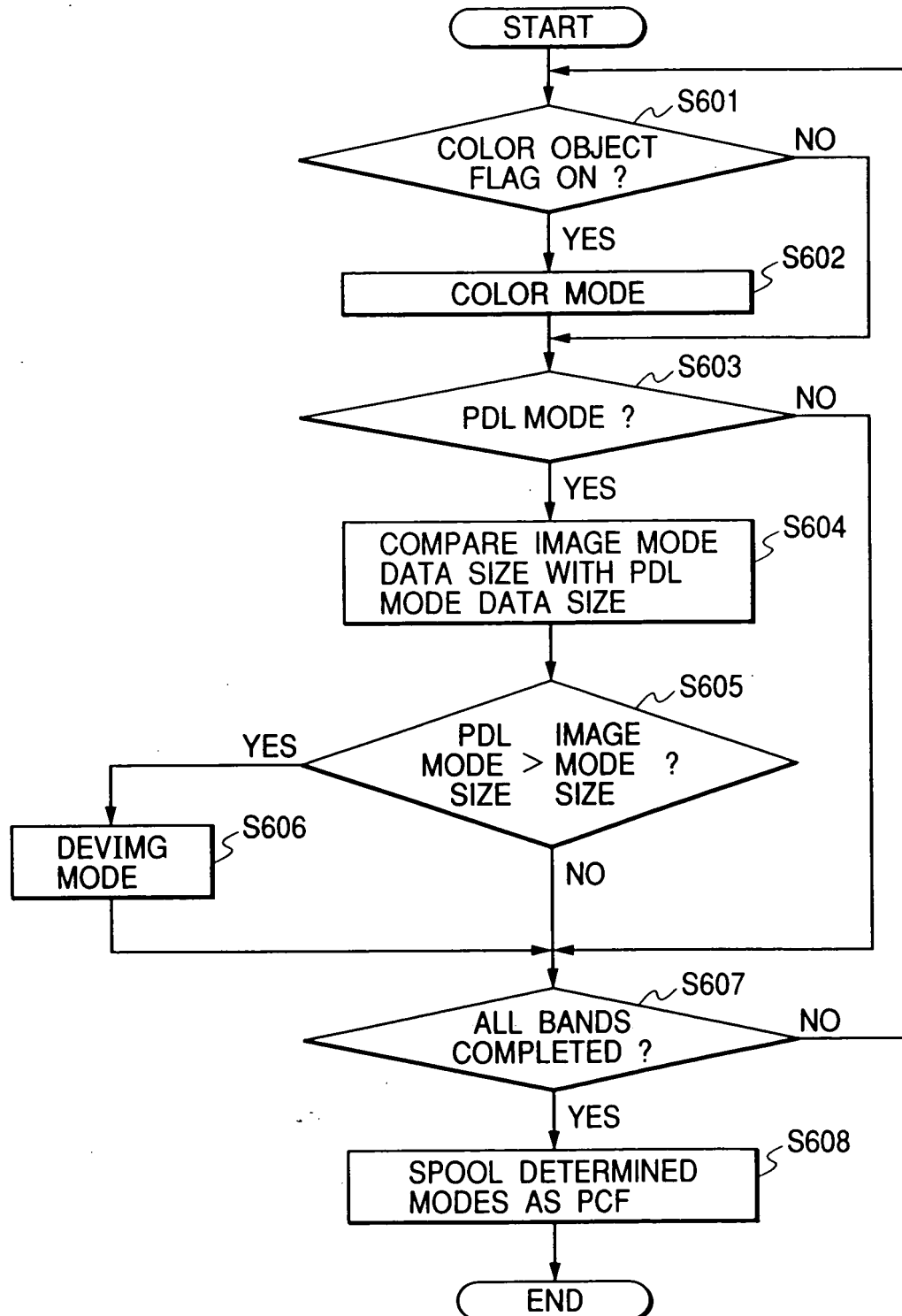


FIG. 6



002290" 80050960

The diagram illustrates a process for generating a high-resolution image from a document page (700) and performing logical operations (701) to produce a high-resolution image (710). The high-resolution image (710) is then processed (720) to produce a final high-resolution image (720) with a different color scheme (PDL, YMCK4BPP, PDL, PDL, RGB24BPP).

**700** (Document Page):

- 701** (High-Resolution Image): A section of the document page showing a high-resolution image of a dish (Paella).
- 702** (Text): Text describing the dish: "PAELLA IS SPANISH PORRIDGE OF RICE, SEAFOOD AND VEGETABLES. FOOD: SEAFOOD SAFFRON RICE".

**701** (Logical Operation): A process step indicated by an arrow pointing from the high-resolution image (701) to the high-resolution image (710).

**710** (High-Resolution Image): A vertical stack of image layers:

- PDL** (Patterned Layer): The top layer, indicated by a double-headed arrow.
- YMCK4BPP** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.
- PDL** (Patterned Layer): A layer with horizontal lines, indicated by a double-headed arrow.
- RGB24BPP** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.

**720** (Processed High-Resolution Image): A vertical stack of image layers, indicated by a downward arrow from 710:

- PDL** (Patterned Layer): The top layer, indicated by a double-headed arrow.
- 7201** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.
- YMCK4BPP** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.
- 7202** (Patterned Layer): A layer with horizontal lines, indicated by a double-headed arrow.
- PDL** (Patterned Layer): A layer with horizontal lines, indicated by a double-headed arrow.
- 7203** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.
- RGB24BPP** (Color Layer): A layer with diagonal hatching, indicated by a double-headed arrow.



FIG. 8A
FIG. 8B

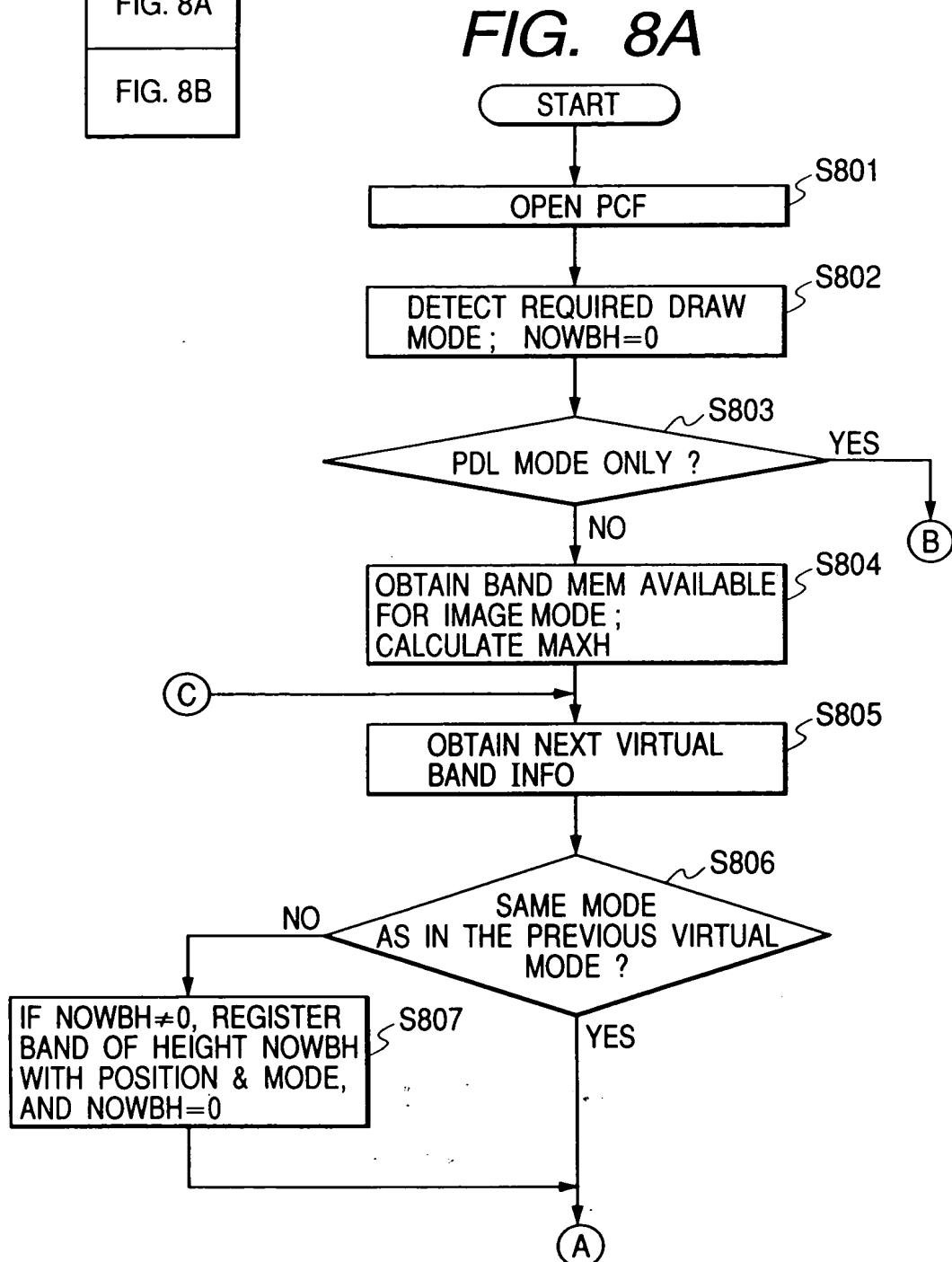
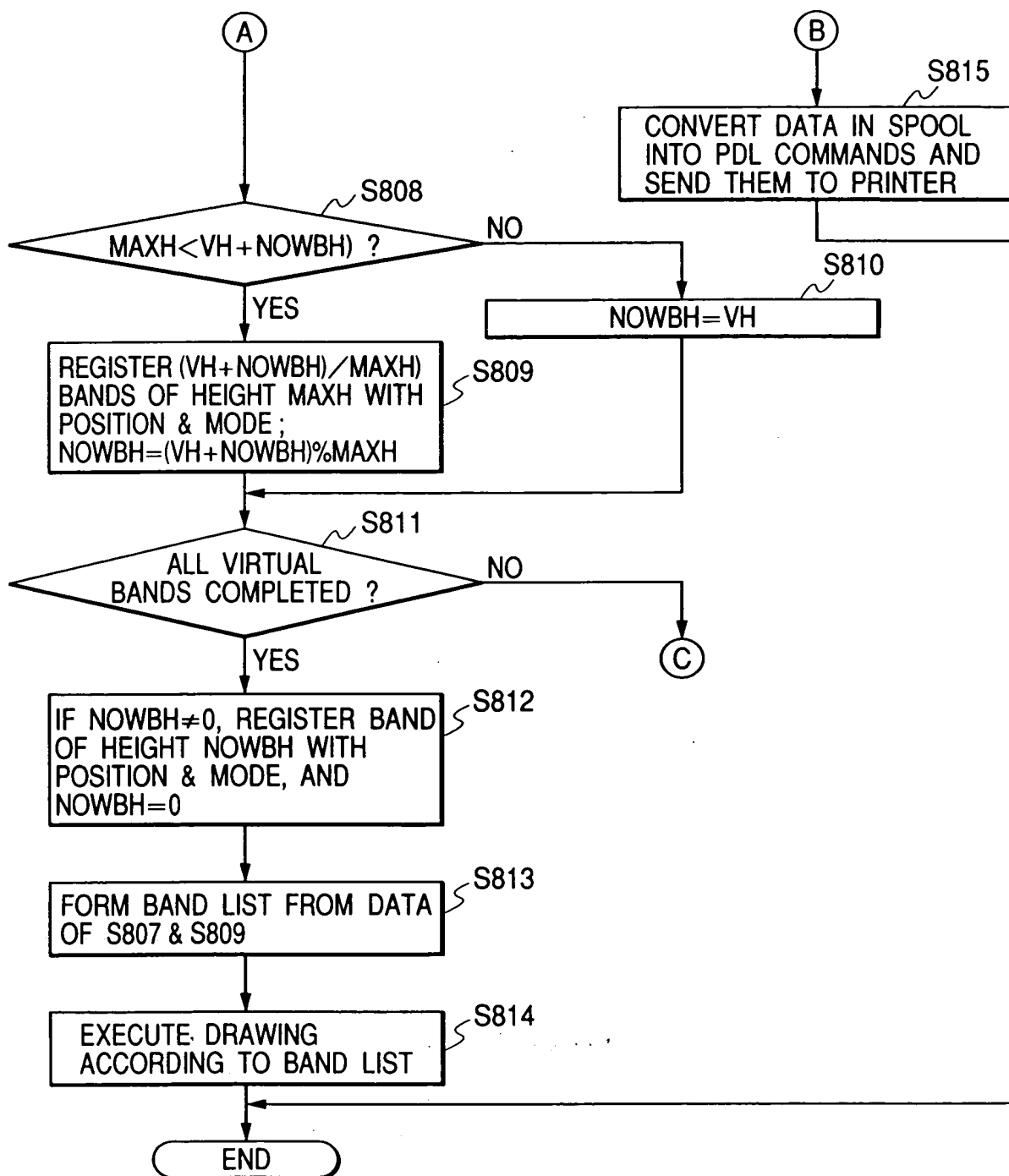


FIG. 8B



002290-80050960

**FIG. 9**

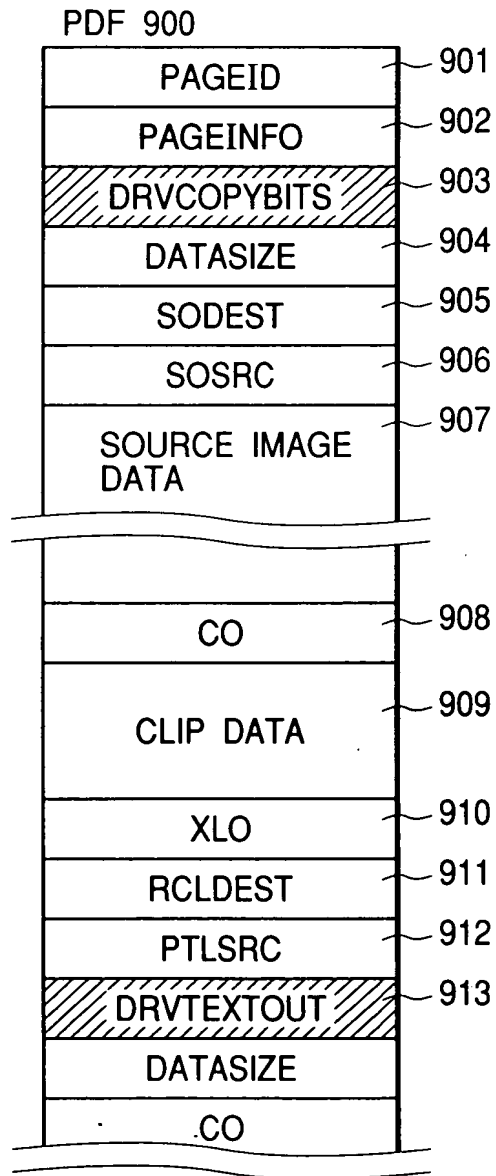
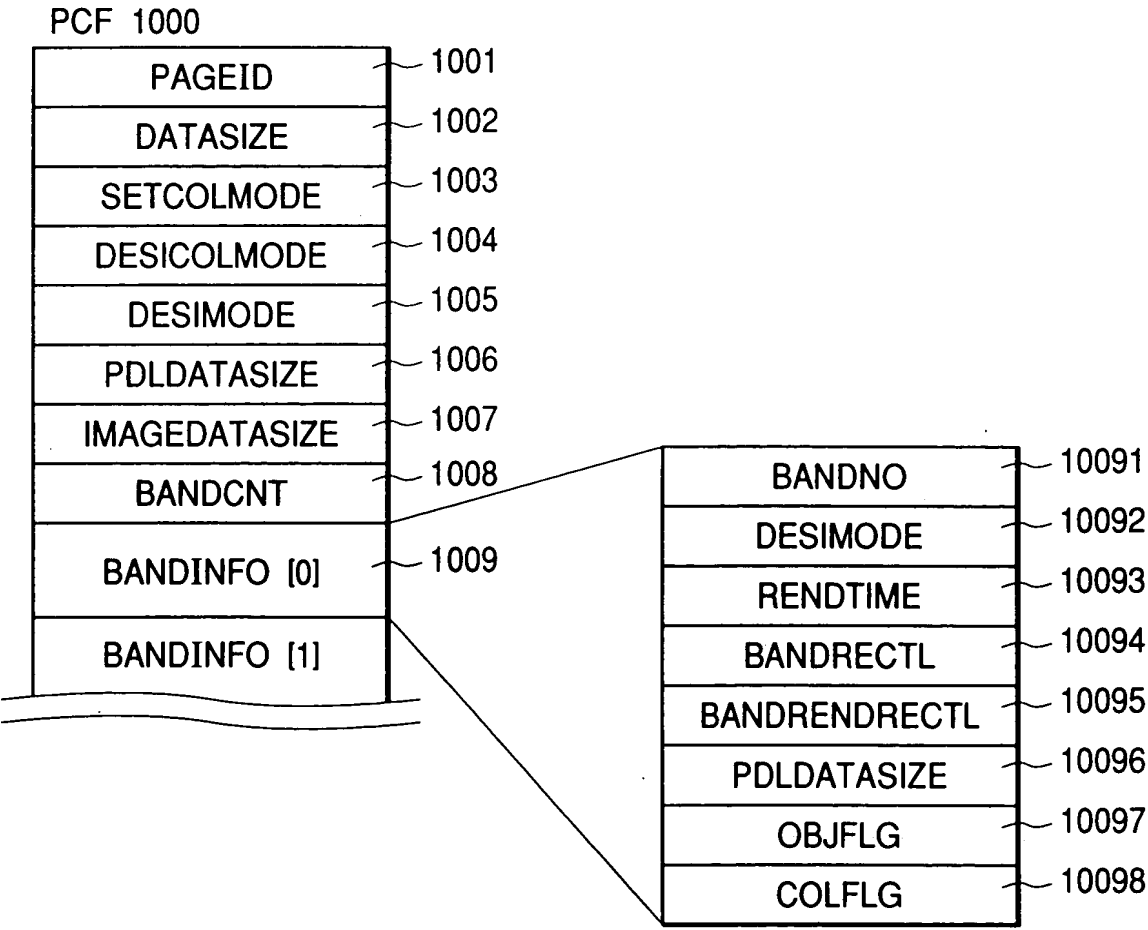


FIG. 10



**FIG. 11**

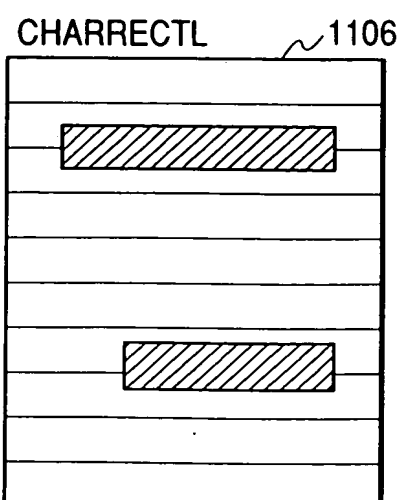
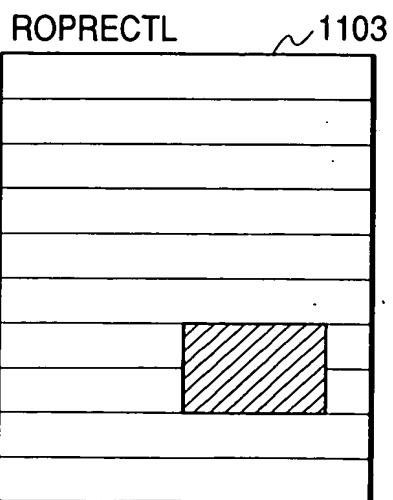
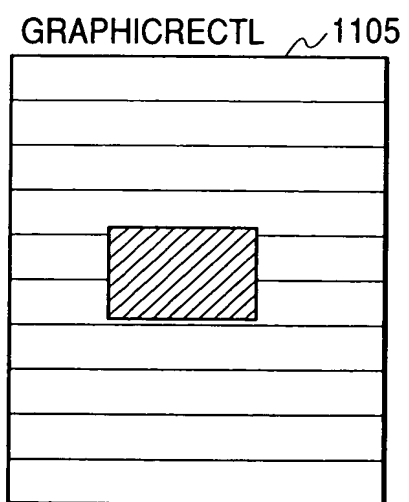
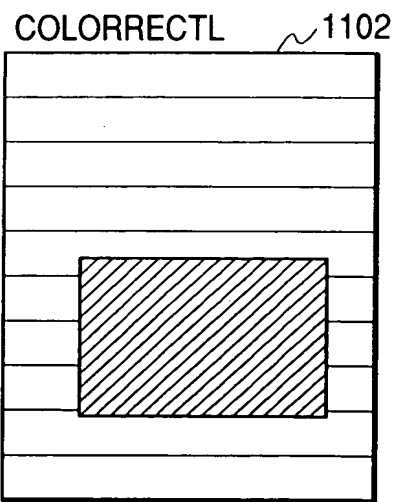
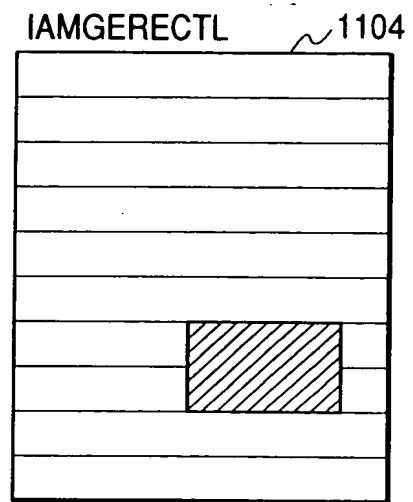
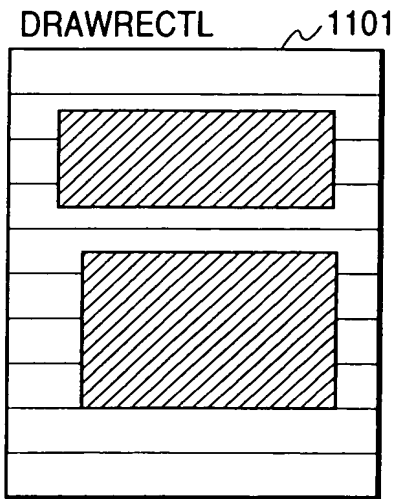
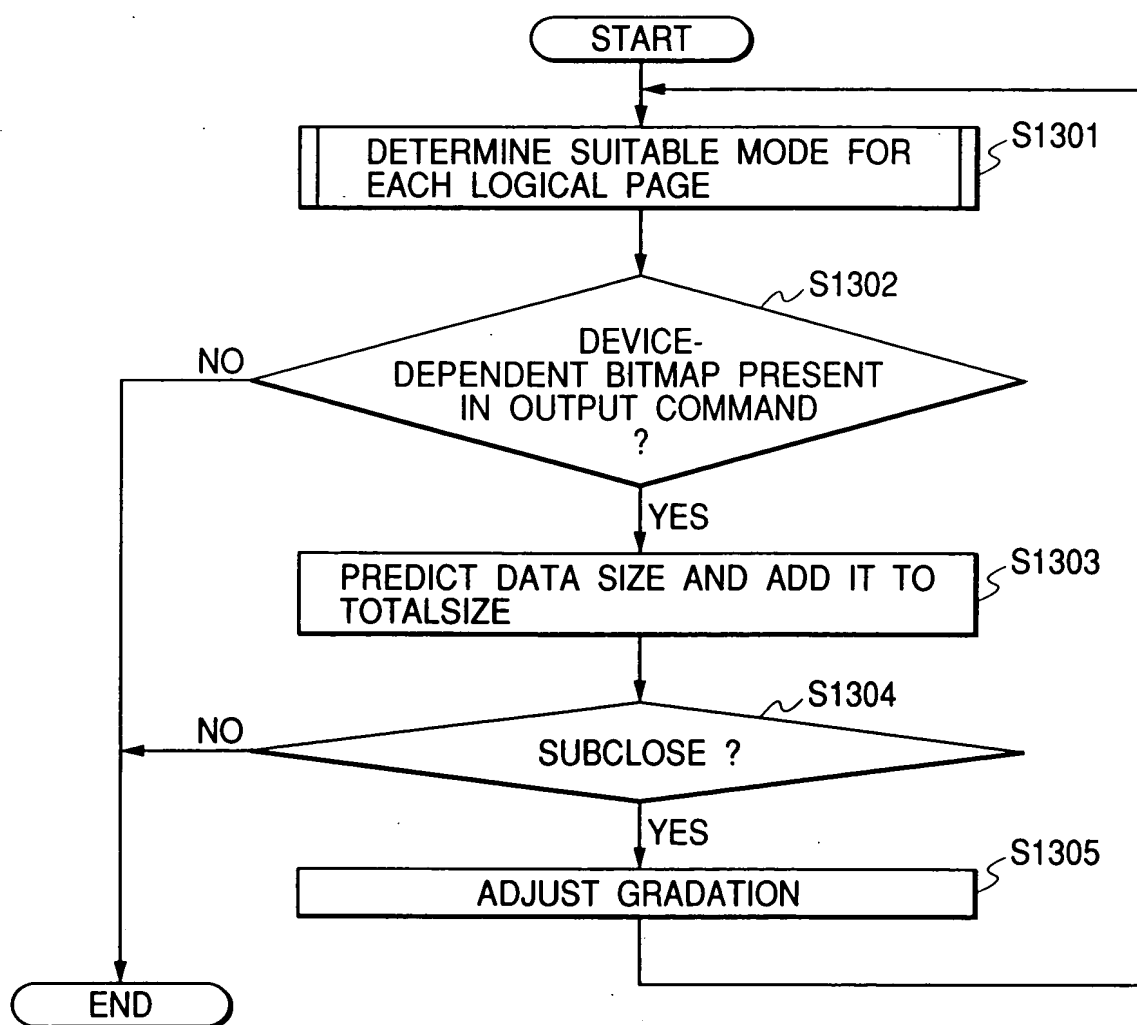




FIG. 13



**FIG. 14**

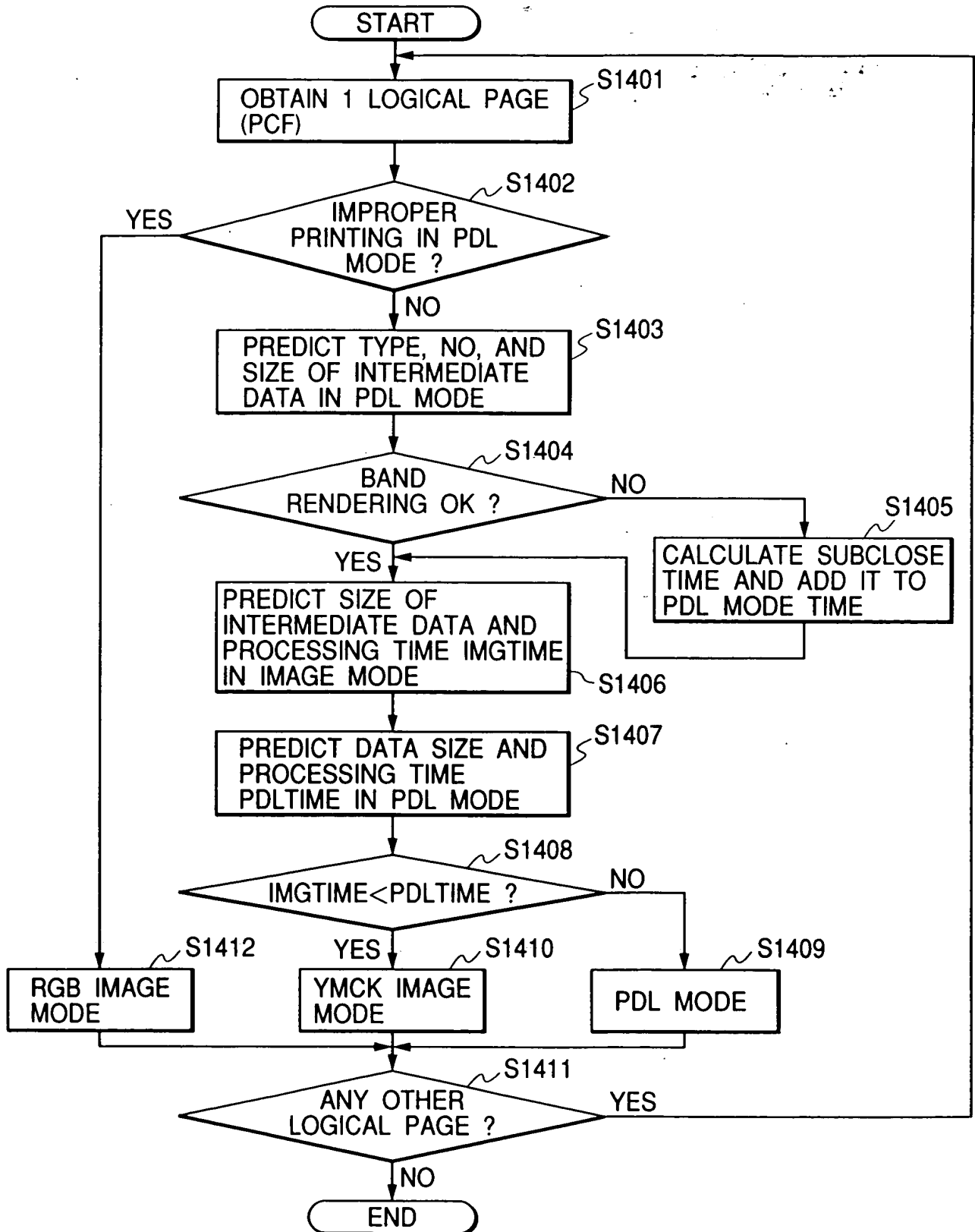
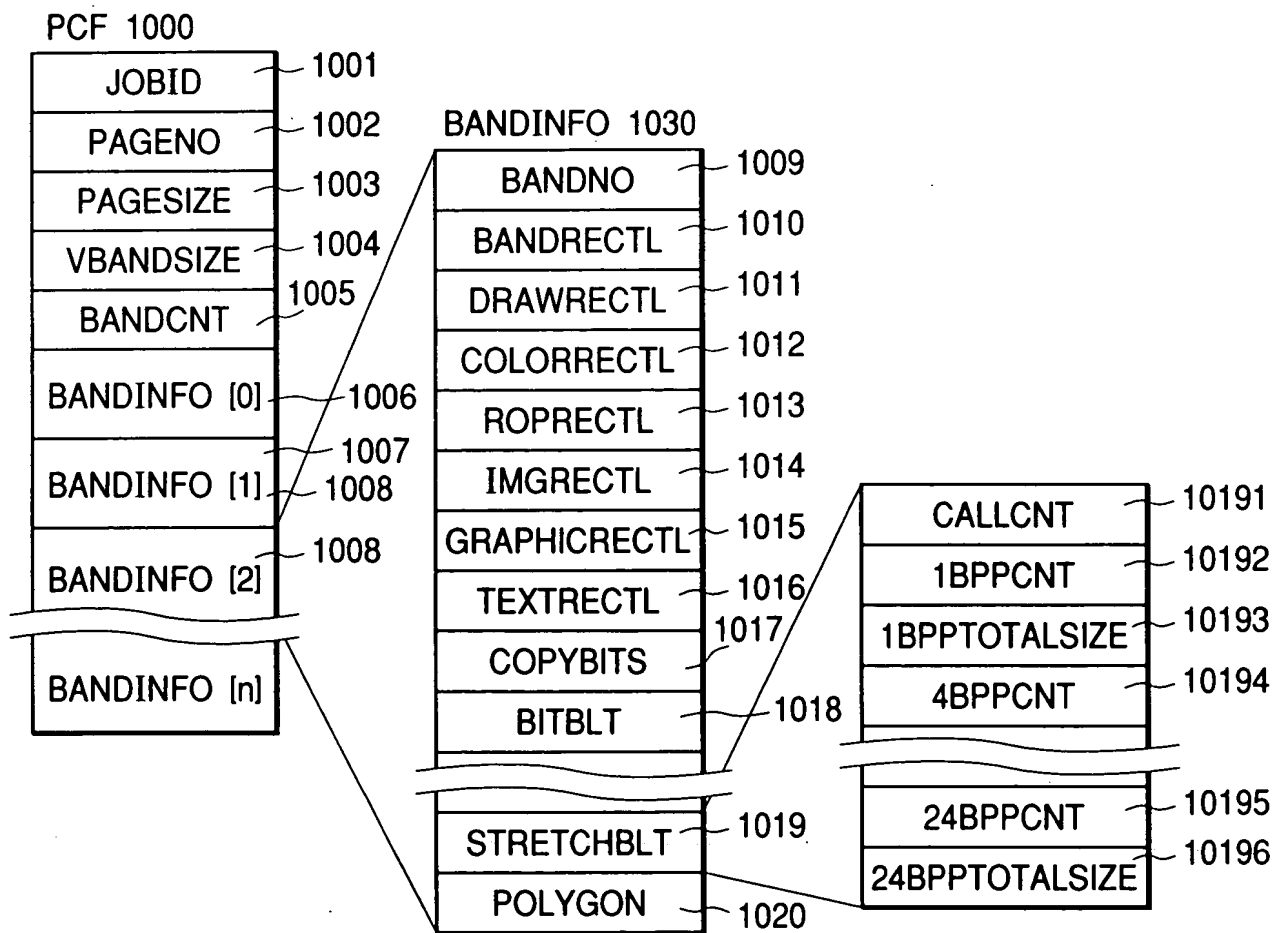




FIG. 15



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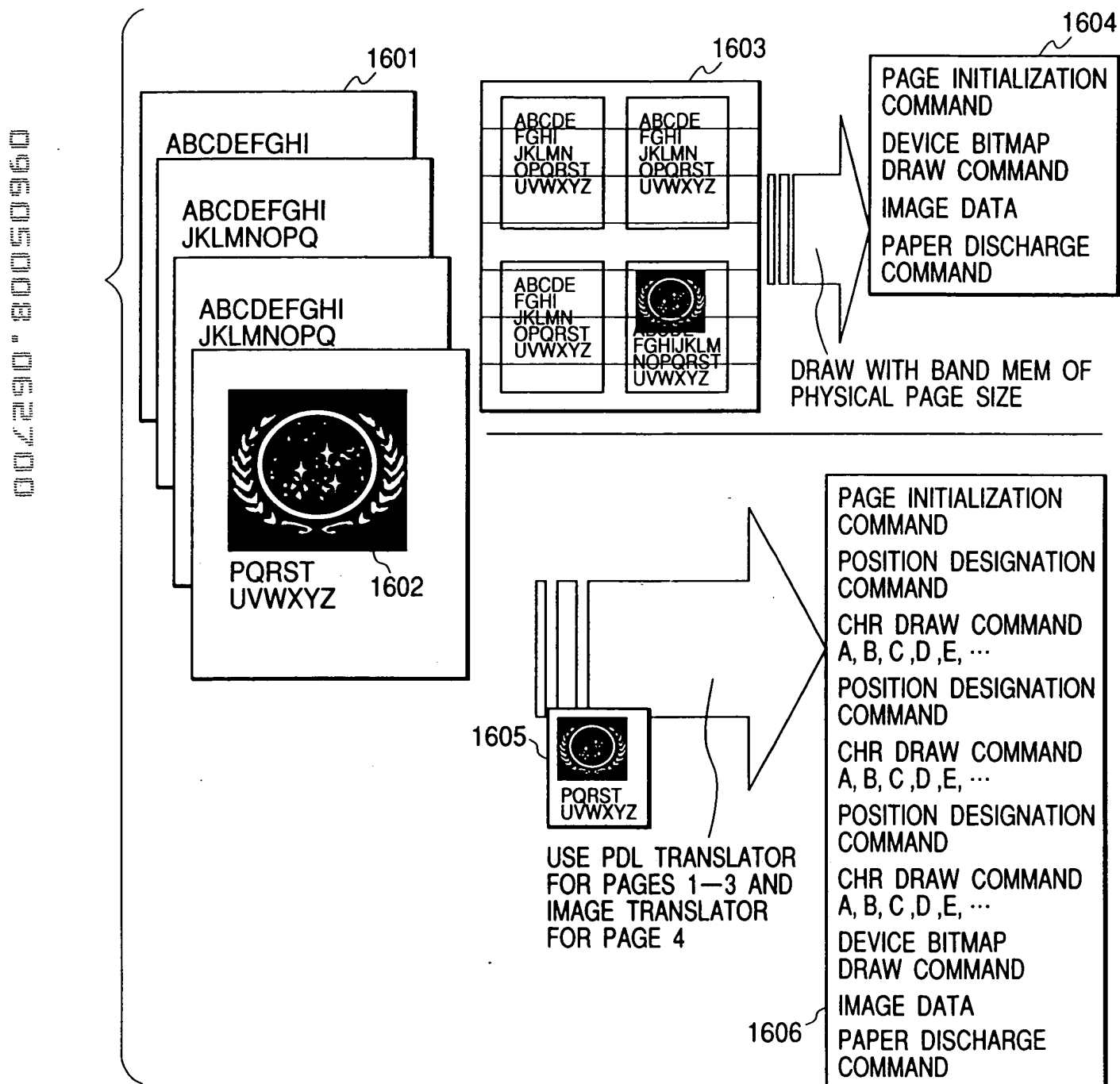


FIG. 17

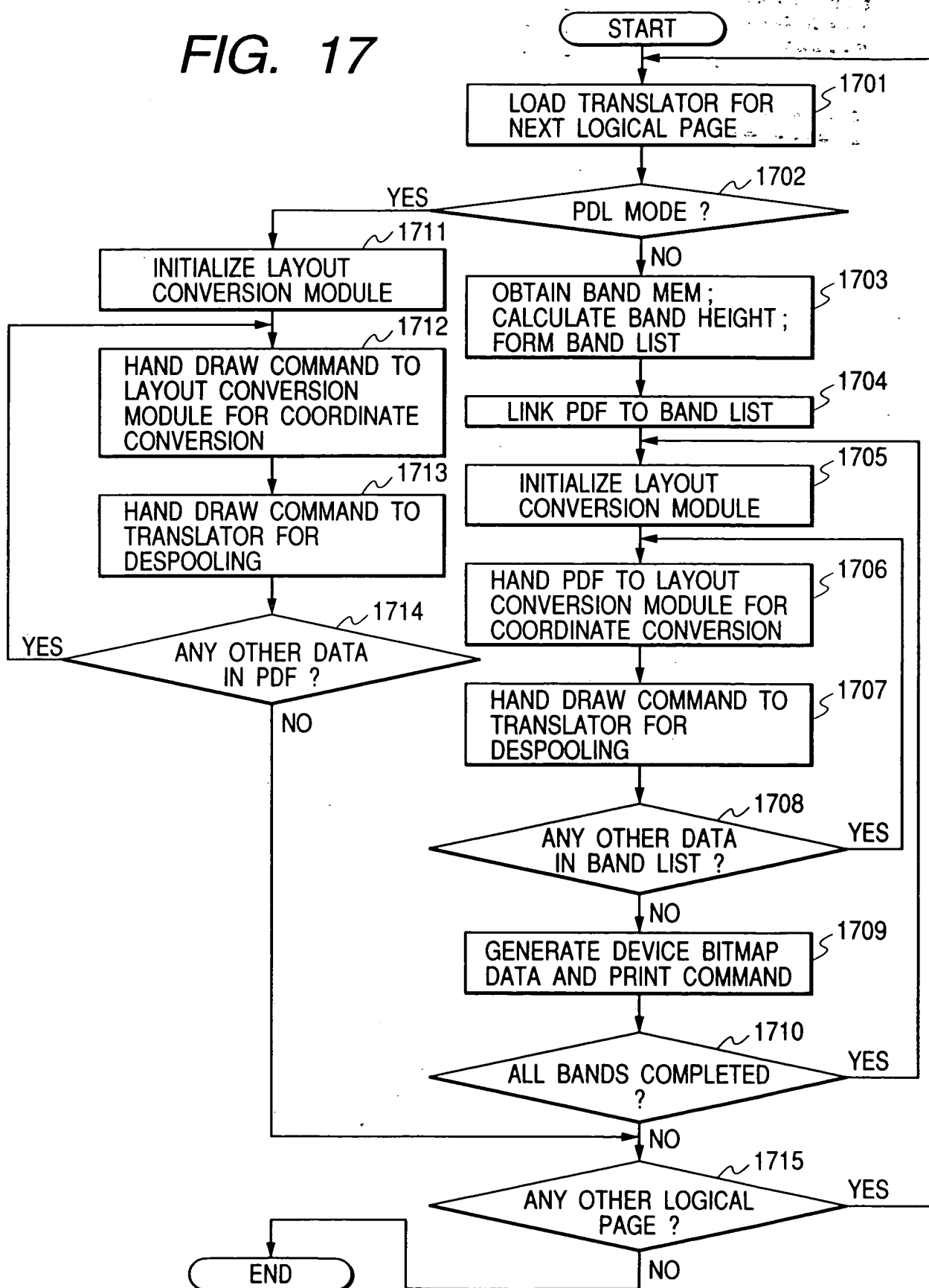
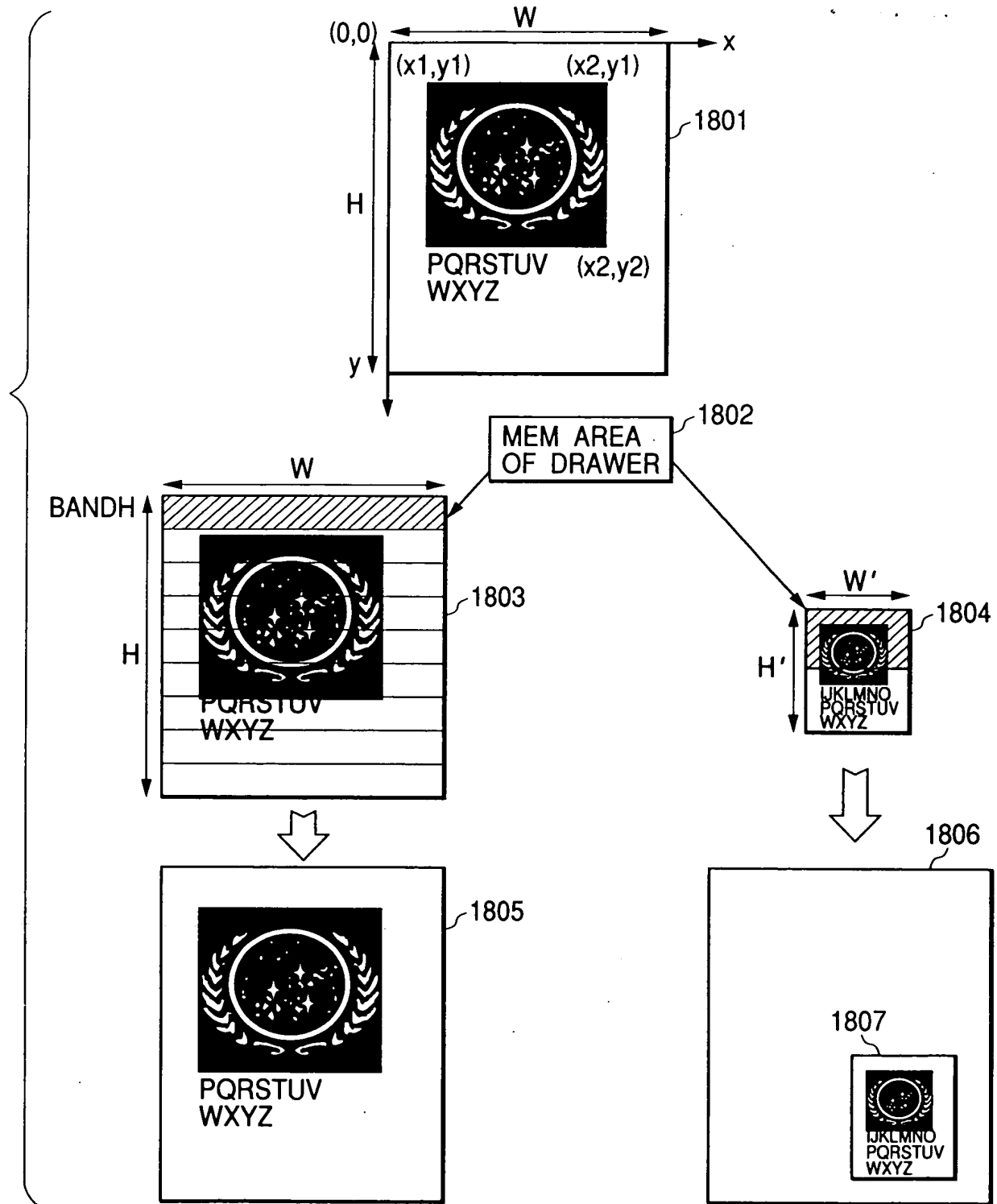
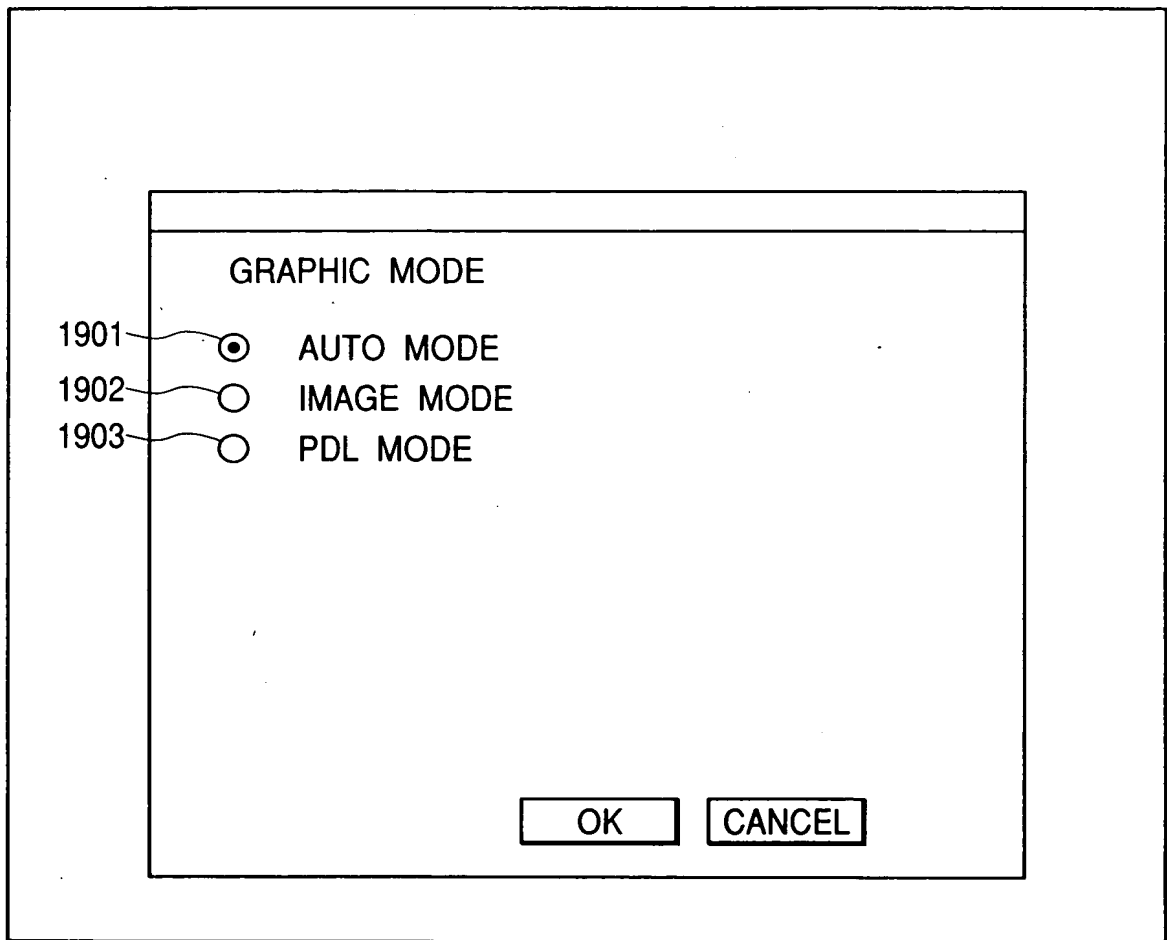


FIG. 18



00000000-00000000

*FIG. 19*



```

graph TD
    START([START]) --> S2001{AUTO MODE ?}
    S2001 -- YES --> S2002[SELECT OPTIMUM RENDERER AND GENERATE IMAGE DATA OR PDL DATA WITH SELECTED RENDERER]
    S2001 -- NO --> S2003{IMAGE MODE ?}
    S2003 -- YES --> S2004[SELECT IMAGE RENDERER AND GENERATE IMAGE DATA WITH IMAGE RENDERER]
    S2003 -- NO --> S2005{PDL MODE ?}
    S2005 -- YES --> S2006[SELECT PDL RENDERER AND GENERATE PDL DATA WITH PDL RENDERER]
    S2005 -- NO --> RETURN([RETURN])
    S2002 --> JOIN1(( ))
    S2004 --> JOIN1
    S2006 --> JOIN1
    JOIN1 --> RETURN
  
```